

WHAT IS CLAIMED IS:

1. A magnetooptic recording medium in which at least a recording layer for recording data and a reproducing layer for reproducing the data recorded in said recording layer are formed on a substrate and the recorded data is reproduced by setting a proper reproducing laser power upon reproduction, wherein
magnetizing directions of a buffer area, a sector address area, and a gap area which are sandwiched between data areas where the data is recorded are uniformly magnetized in a recording direction.
2. A medium according to claim 1, wherein a mark in said recording layer is reflected from an aperture sandwiched between a front mask formed ahead of a reproducing beam in said reproducing layer and a rear mask formed behind the reproducing beam, and the data is reproduced by an MSR (Magnetically Induced Super Resolution).
3. A medium according to claim 1, wherein a signal is recorded and reproduced onto/from one or both of lands and grooves formed alternately on the medium.
4. A magnetooptic recording medium in which at least a recording layer for recording data and a reproducing layer for reproducing the data recorded in said recording layer are formed on a substrate and the recorded data is reproduced by setting a proper reproducing laser power upon reproduction, wherein
a front portion of a data area in which the data is recorded is uniformly magnetized in a recording direction.

5. A medium according to claim 4, wherein a mark in said recording layer is reflected from an aperture sandwiched between a front mask formed ahead of a reproducing beam in said reproducing layer and a rear mask formed behind the reproducing beam, and the data is reproduced by an MSR (Magnetically Induced Super Resolution).

6. A medium according to claim 4, wherein a signal is recorded and reproduced onto/from one or both of lands and grooves formed alternately on the medium.

7. A storing apparatus, wherein at least a recording layer for recording data and a reproducing layer for reproducing the data recorded in said recording layer are formed on a substrate of a magnetooptic recording medium, and

said storing apparatus comprises:

a reproducing unit which reproduces the recorded data by setting a proper reproducing laser power upon reproduction; and

a recovery processing unit which, when a predetermined recovery condition such as read error, temperature fluctuation, or the like occurs, uniformly magnetizes magnetizing directions of a buffer area, a sector address area, and a gap area which are sandwiched between data areas in which the data is recorded in a recording direction and, thereafter, retries the reproduction.

8. An apparatus according to claim 7, wherein said reproducing

unit reflects a mark in said recording layer from an aperture sandwiched between a front mask formed ahead of a reproducing beam in said reproducing layer and a rear mask formed behind the reproducing beam and reproduces the data by an MSR (Magnetically Induced Super Resolution).

9. An apparatus according to claim 7, wherein said reproducing unit reproduces a signal recorded on one or both of lands and grooves formed alternately on said magneto optic recording medium.

10. A storing apparatus, wherein
at least a recording layer for recording data and a
reproducing layer for reproducing the data recorded in said recording layer are formed on a substrate of a magneto optic recording medium,
and

said storing apparatus comprises:

a reproducing unit which reproduces the recorded data by setting a proper reproducing laser power upon reproduction; and

a recovery processing unit which, when a predetermined recovery condition such as read error, temperature fluctuation, or the like occurs, uniformly magnetizes a front portion of a data area in which the data is recorded in a recording direction and, thereafter, retries the reproduction.

11. An apparatus according to claim 10, wherein said reproducing unit reflects a mark in said recording layer from an aperture sandwiched between a front mask formed ahead of a reproducing beam

in said reproducing layer and a rear mask formed behind the reproducing beam and reproduces the data by an MSR (Magnetically Induced Super Resolution).

5 12. An apparatus according to claim 10, wherein said reproducing unit reproduces a signal recorded on one or both of lands and grooves formed alternately on said magneto optic recording medium.

10 13. A magneto optic recording medium, wherein a portion of an emboss area or a space area before or after a data area in which data is magneto optically recorded is uniformly magnetized in a recording direction.

15 14. A storing apparatus comprising a format write processing unit which uniformly magnetizes a portion before or after a data area on a magneto optic recording medium in which data is recorded in a recording direction.